

Figure 1

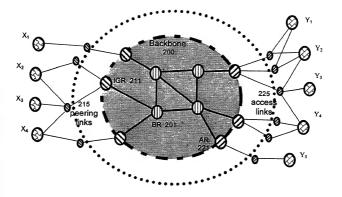


Figure 2

For each flow: (input, dest, start, finish, bytes)

dest\_prefix = longest\_prefix\_match(dest, dest\_prefix\_set);
egress\_set = reachability(dest\_prefix);
start\_bin = [start/width] \* width;
finish\_bin = [finish\_bin)

volume[input, egress\_set, start\_bin] += bytes;
else /\* Compute volume of traffic for each time\_bin \*/
byte\_rate = byutes / (finish – start)

volume[input, egress\_set, start\_bin] += byte\_rate \* (start\_bin + width – start);
for (time\_bin = start\_bin + width; time\_bin < finish\_bin; time\_bin += width)

volume[input, egress\_set, finish\_bin] += byte\_rate \* (finish\_bin); time\_bin < start\_bin < width)

volume[input, egress\_set, finish\_bin] += byte\_rate \* (finish\_bin); time\_bin < start\_bin < start\_bin < width)

volume[input, egress\_set, finish\_bin] += byte\_rate \* (finish\_bin); time\_bin < start\_bin < width)

Output for each aggregate (input, egress\_set, finish\_bin), volume) input, output for each aggregate (input, egress\_set, finish\_bin), volume)

## Figure 3

For each flow. (input, output, src, dest, start, finish, bytes)

dest\_prefix = longest\_prefix\_match(dest, dest\_prefix\_set);
egress\_set = reachability(dest\_prefix;)
if (input\pe == peer) /\* Inbound or (ingress) transit flow \*/
compute volume[input, egress-set, input, output, time\_bin] for each bin;
else /\* Outbound or (egress) transit flow \*/
src\_prefix = longest\_prefix\_match(src, src\_access\_prefix\_set);
if (src has no match)
ingress\_set = sendability(src\_prefix);

compute volume[ingress\_set, egress\_set, input, output, time\_bin] for each bin; Output for each aggregate: (ingress\_set, egress\_set, input, output, time\_bin, volume)

## Figure 4

For each aggregate: (ingress\_set, egress\_set, input, output, time\_bin, volume)

For each a in ingress\_set

route = Route(a, egress\_set);

if (route does not use input and output links)

remove a from ingress\_set;

if (ingress\_set ≠ Ø)

for each a in ingress\_set

dvolume[a, egress\_set, time\_bin] += volume / size\_of(ingress\_set);

else

count as a miss;

Output for each demand: (a, egress-set, time\_bin, dvolume)

## Figure 5

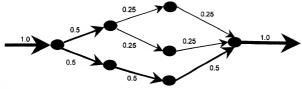


Figure 6

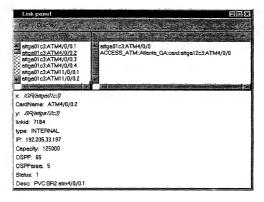


Figure 7

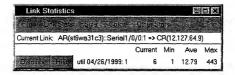


Figure 8

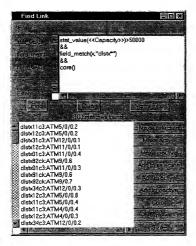


Figure 9

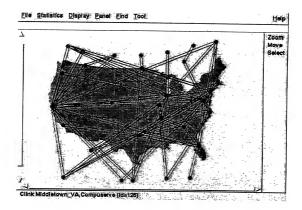


Figure 10

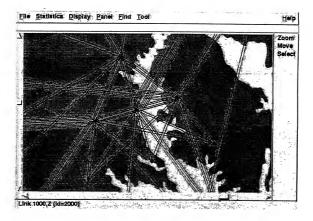


Figure 11